



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

LONRF3 siRNA (m): sc-149016

BACKGROUND

The RING-type zinc finger motif is present in a number of viral and eukaryotic proteins and is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain this conserved domain are generally involved in the ubiquitination pathway of protein degradation. LONRF3 (LON peptidase N-terminal domain and RING finger protein 3), also known as RNF127 (RING finger protein 127), is a 759 amino acid protein containing one LON domain, two RING-type zinc fingers and four TPR repeats. Three isoforms of LONRF3 are produced by alternative splicing events. The gene encoding LONRF3 maps to human chromosome Xq24 and mouse chromosome X A3.3.

REFERENCES

1. Freemont, P.S., Hanson, I.M. and Trowsdale, J. 1991. A novel cysteine-rich sequence motif. *Cell* 64: 483-484.
2. Borden, K.L. and Freemont, P.S. 1996. The RING finger domain: a recent example of a sequence-structure family. *Curr. Opin. Struct. Biol.* 6: 395-401.
3. Lorick, K.L., Jensen, J.P., Fang, S., Ong, A.M., Hatakeyama, S. and Weissman, A.M. 1999. RING fingers mediate ubiquitin-conjugating enzyme (E2)-dependent ubiquitination. *Proc. Natl. Acad. Sci. USA* 96: 11364-11369.
4. Hillier, L.W., Graves, T.A., Fulton, R.S., Fulton, L.A., Pepin, K.H., Minx, P., Wagner-McPherson, C., Layman, D., Wylie, K., Sekhon, M., Becker, M.C., Fewell, G.A., Delehaanty, K.D., Miner, T.L., Nash, W.E., Kremitzki, C., et al. 2005. Generation and annotation of the DNA sequences of human chromosomes 2 and 4. *Nature* 434: 724-731.
5. Liu, C.H., Goldberg, A.L. and Qiu, X.B. 2007. New insights into the role of the ubiquitin-proteasome pathway in the regulation of apoptosis. *Chang Gung Med J.* 30: 469-479.
6. Perucatti, A., Di Meo, G.P., Goldammer, T., Incarnato, D., Brunner, R. and Iannuzzi, L. 2007. Comparative FISH-mapping of twelve loci in river buffalo and sheep chromosomes: comparison with HSA8p and HSA4q. *Cytogenet. Genome Res.* 119: 242-244.
7. Barber, J.C., Maloney, V.K., Huang, S., Bunyan, D.J., Cresswell, L., Kinning, E., Benson, A., Cheetham, T., Wylie, J., Lynch, S.A., Zwolinski, S., Prescott, L., Crow, Y., Morgan, P. and Hobson, E. 2008. 8p23.1 duplication syndrome; a novel genomic condition with unexpected complexity revealed by array CGH. *Eur. J. Hum. Genet.* 16: 18-27.

CHROMOSOMAL LOCATION

Genetic locus: Lonrf3 (mouse) mapping to X A3.3.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

PRODUCT

LONRF3 siRNA (m) is a pool of 3 target-specific 19-25 nt siRNAs designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see LONRF3 shRNA Plasmid (m): sc-149016-SH and LONRF3 shRNA (m) Lentiviral Particles: sc-149016-V as alternate gene silencing products.

For independent verification of LONRF3 (m) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-149016A, sc-149016B and sc-149016C.

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20° C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20° C, avoid contact with RNAses and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330 μ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330 μ l of RNase-free water makes a 10 μ M solution in a 10 μ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

LONRF3 siRNA (m) is recommended for the inhibition of LONRF3 expression in mouse cells.

SUPPORT REAGENTS

For optimal siRNA transfection efficiency, Santa Cruz Biotechnology's siRNA Transfection Reagent: sc-29528 (0.3 ml), siRNA Transfection Medium: sc-36868 (20 ml) and siRNA Dilution Buffer: sc-29527 (1.5 ml) are recommended. Control siRNAs or Fluorescein Conjugated Control siRNAs are available as 10 μ M in 66 μ l. Each contain a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA. Fluorescein Conjugated Control siRNAs include: sc-36869, sc-44239, sc-44240 and sc-44241. Control siRNAs include: sc-37007, sc-44230, sc-44231, sc-44232, sc-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor LONRF3 gene expression knockdown using RT-PCR Primer: LONRF3 (m)-PR: sc-149016-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.